

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
GRAPHIC DEPARTURE PROCEDURES (DP)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.  
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

<u>DP NAME</u>	<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
BITEZ	ONE	BITEZ1.BITEZ	NONE		

<u>TYPE:</u>	<u>OBSTACLE</u>	<u>COPTER</u>	<u>SID</u>	<u>SPECIAL</u>	<u>RNAV</u>
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**DP ROUTE DESCRIPTION:**

MSP:

TAKEOFF RWY 4, 17, 22: CLIMB ON ASSIGNED HEADING FOR VECTORS TO HHOBA, THENCE...

TAKEOFF RWY 12L: CLIMB ON HEADING 121.33 TO 1342, THEN LEFT TURN DIRECT FSHAY, CROSS FSHAY AT OR ABOVE 3500, THEN ON TRACK 105.00 FOR VECTORS TO HHOBA, THENCE...

TAKEOFF RWY 12R: CLIMB ON HEADING 121.34 TO 1342, THEN LEFT TURN DIRECT FSHAY, CROSS FSHAY AT OR ABOVE 3500, THEN ON TRACK 105.00 FOR VECTORS TO HHOBA, THENCE...

TAKEOFF RWY 30L: CLIMB ON HEADING 301.36 TO 1342, THEN DIRECT ITCHZ, CROSS ITCHZ AT OR ABOVE 4000, THEN ON TRACK 300.00 FOR VECTORS TO HHOBA, THENCE...

TAKEOFF RWY 30R: CLIMB ON HEADING 301.35 TO 1342, THEN DIRECT ITCHZ, CROSS ITCHZ AT OR ABOVE 4000, THEN ON TRACK 300.00 FOR VECTORS TO HHOBA, THENCE....

TAKEOFF RWY 35: CLIMB ON HEADING 349.53 TO 1342, THEN LEFT TURN DIRECT ITCHZ, CROSS ITCHZ AT OR ABOVE 4000, THEN ON TRACK 300.00 FOR VECTORS TO HHOBA, THENCE...

...CROSS HHOBA AT OR ABOVE 4500, THEN ON TRACK 284.38 TO BITEZ, THEN ON TRANSITION. MAINTAIN (JETS) 7000/(PROPS) 5000, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

ALL AIRCRAFT: ATC CROSSING RESTRICTIONS AND CLIMB GRADIENTS: IF UNABLE TO ACCEPT CROSSING RESTRICTIONS AND CLIMB GRADIENTS ADVISE ATC PRIOR TO TAXI.

RWY 12L: CROSS FSHAY AT OR ABOVE 3500, 420 FT/NM TO 3500.

RWY 12R: CROSS FSHAY AT OR ABOVE 3500, 400 FT/NM FROM 1342 TO 3500.

RWY 30L/R: CROSS ITCHZ AT OR ABOVE 4000, 430 FT/NM TO 4000.

RWY 35: CROSS ITCHZ AT OR ABOVE 4000, 440 FT/NM FROM 1342 TO 3500.

ANE, FCM:

TAKEOFF ALL RWYS: CLIMB ON ASSIGNED HEADING FOR VECTORS TO HHOBA, CROSS HHOBA AT OR ABOVE 4500, THEN ON TRACK 284.38 TO BITEZ, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE, EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

STP:

TAKEOFF RWY 9: CLIMB ON HEADING 090.66 TO 1400 FOR VECTORS TO HHOBA, THENCE...

TAKEOFF RWY 13: CLIMB ON HEADING 127.74 TO 1300 FOR VECTORS TO HHOBA, THENCE...

TAKEOFF RWY 14: CLIMB ON HEADING 146.03 TO 1200 FOR VECTORS TO HHOBA, THENCE...

TAKEOFF RWY 27: CLIMB ON HEADING 270.67 TO 1700 FOR VECTORS TO HHOBA, THENCE...

TAKEOFF RWY 32: CLIMB ON HEADING 326.04 TO 1400 FOR VECTORS TO HHOBA, THENCE...

...CROSS HHOBA AT OR ABOVE 4500, THEN ON TRACK 284.38 TO BITEZ, THEN ON TRANSITION. MAINTAIN ATC ASSIGNED ALTITUDE. EXPECT FILED ALTITUDE 10 MINUTES AFTER DEPARTURE.

**TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):**

<u>TRANSITION NAME</u>	<u>TRANSITION COMPUTER CODE</u>	<u>FROM FIX/NAVAID</u>	<u>TO FIX/NAVAID</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>MEA</u>	<u>MOCA</u>	<u>CROSSING ALTITUDE/FIXES</u>
DKOTA	BITEZ1.DKOTA	BITEZ	SKITO	TRACK 275.43	10.43	5000	2400	
		SKITO	TICKK	TRACK 275.26	6.00	5000	2400	
		TICKK	HHCEE	TRACK 275.16	13.07	7000	2400	
		HHCEE	DKOTA	TRACK 279.86	136.25	8000	3800	
LEINY	BITEZ1.LEINY	BITEZ	SKITO	TRACK 275.43	10.43	5000	2400	

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<u>DP NAME</u>		<u>NUMBER</u>	<u>DP COMPUTER CODE</u>	<u>SUPERSEDED NUMBER</u>	<u>DATED</u>	<u>ACTUAL EFFECTIVE DATE</u>
BITEZ		ONE	BITEZ1.BITEZ	NONE		
	SKITO		TICKK	TRACK 275.26	6.00	5000 2400
	TICKK		HHCEE	TRACK 275.16	13.07	7000 2400
	HHCEE		LEINY	TRACK 271.41	134.51	8000 4000
SMERF	BITEZ1.SMERF	BITEZ	ZOGAP	TRACK 310.76	11.92	5000 2600
	ZOGAP		PAGOZ	TRACK 289.06	7.80	7000 2600
	PAGOZ		SMERF	TRACK 288.90	151.52	8000 3200

**PBN REQUIREMENT NOTES:**

RNAV 1 - DME/DME/IRU OR GPS.

**EQUIPMENT REQUIREMENT NOTES:**

RADAR REQUIRED.

**PROCEDURAL DATA NOTES:**

**TAKEOFF MINIMUMS:**

MSP:

RWY 12L, 17, 22, 30L/R: STANDARD.

RWY 4: STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 2000.

RWY 12R, 35: STANDARD WITH MINIMUM CLIMB OF 500 FT/NM TO 1342.

ANE:

RWY 9: STANDARD WITH MINIMUM CLIMB OF 350 FT/NM TO 2900.

RWY 18: STANDARD WITH MINIMUM CLIMB OF 370 FT/NM TO 3000.

RWY 27, 36: STANDARD WITH MINIMUM CLIMB OF 260 FT/NM TO 2800.

FCM:

RWY 10L/R, 18, 28L/R, 36: STANDARD.

STP:

RWY 31: NA-AIRPORT RESTRICTIONS.

RWY 9: STANDARD WITH MINIMUM CLIMB OF 310 FT/NM TO 1200.

RWY 13: STANDARD WITH MINIMUM CLIMB OF 240 FT/NM TO 1400.

RWY 14: STANDARD WITH MINIMUM CLIMB OF 220 FT/NM TO 1500.

RWY 27: STANDARD WITH MINIMUM CLIMB OF 350 FT/NM TO 1100.

RWY 32: STANDARD WITH MINIMUM CLIMB OF 340 FT/NM TO 2500.

**TAKEOFF OBSTACLES NOTES:**

SEE FORM 8260-15A, TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURE (ODP).

**CONTROLLING OBSTACLES:**

MSP:

RWY 4: 2438 FT MSL TOWER 450344.83N/0930822.61W.

ANE:

RWY 9, 18, 27, 36: 2438 FT MSL TOWER 450344.83N/0930822.61W.



DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
BITEZ	ONE	BITEZ1.BITEZ	NONE		

STP:  
RWY 9: 977 FT MSL TREE 445624.13N/0930133.24W (CLIMB GRADIENT); 1058 FT MSL TREE 445602.90N/0930100.41W (CLIMB GRADIENT TERMINATION ALTITUDE); 1234 FT MSL BUILDING 445702.59N/0925945.02W (CLIMB-TO ALTITUDE).  
RWY 13: 1238 FT MSL TOWER 445440.64N/0925910.72W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE); 1137 FT MSL TANK 445518.00N/0930012.00W (CLIMB-TO ALTITUDE).  
RWY 14: 1241 FT MSL AAO 445327.00N/0925936.00W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE); 2375 FT MSL TOWER 450330.00N/0930728.00W (CLIMB-TO ALTITUDE).  
RWY 27: 870 FT MSL TREE 445553.97N/0930459.45W (CLIMB GRADIENT); 965 FT MSL TREE 445544.61N/0930537.26W (CLIMB GRADIENT TERMINATION ALTITUDE); 2438 FT MSL TOWER 450344.83N/0930822.61W (CLIMB-TO ALTITUDE).  
RWY 32: 973 FT MSL TOWER 445730.10N/0930432.14W (CLIMB GRADIENT); 2375 FT MSL TOWER 450330.00N/0930728.00W (CLIMB GRADIENT TERMINATION ALTITUDE); 1271 FT MSL BUILDING 445647.16N/0930528.42W (CLIMB-TO ALTITUDE).

MSA:  
ALL AIRPORTS: 3500

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:  
AIRPORT MV: MSP (P) 0E/2015, ANE 2E/2000, FCM 3E/1985, STP 0E/2020.  
DME/DME ASSESMENT: SAT (RNP 2.0).  
MSP - CHART: TOP ALTITUDE: (JETS) 7000/(PROPS) 5000.  
ANE, FCM, STP - CHART: TOP ALTITUDE: ASSIGNED BY ATC.  
CHART: MINIMUM CROSSING ALTITUDE AT HHOB - 4500.

AIRPORTS SERVED:

AIRPORT ID	CITY	STATE
MSP	MINNEAPOLIS	MN
ANE	MINNEAPOLIS	MN
FCM	MINNEAPOLIS	MN
STP	ST PAUL	MN

COMMUNICATIONS:  
CHART: ATIS, CLNC DEL, GND CON, TOWER.

FIXES AND/OR NAVAIDS:

REMARKS:  
100 FT VEGETATION USED PER FPT.  
WAIVERS (1): ATC REQUESTED ALTITUDE LOWER THAN UNRESTRICTED CLIMB ALLOWED BY TERPS EVALUATION; WAIVER (2): REDUCED ROC; WAIVER (3): ATC CLIMB GRADIENT.  
STP: RWY 31, RESTRICTED DUE TO OBSTACLES CAUSING HIGHER THAN 500 FT/NM CLIMB GRADIENT. ATC DOESN'T HAVE A RESTRICTION. CHECK WITH AIRPORT FOR A FUTURE CHANGE TO ADD MINS TO THE ODP AND SIDS.  
MSP RWY 12R, 35: 500 FT/NM LNAV ENGAGEMENT CLIMB GRADIENT REQUIRED FOR PROCEDURE DESIGN DUE TO WIND SPIRALS.  
MSP MINIMUMS COMBINED TO REDUCE CHART CLUTTER: RWYS 12L/R, 17, 22, 30L/R, 35 - STANDARD. RWY 12R, 35: - 500 FT/NM TO 1342.  
MSP RWY 12L/R, 30L/R AND 35: AIRCRAFT CALCULATED ALTITUDE AT FIX FSHAY AND ITCHZ BELOW MVA ADDITIONAL SECTORED EVALUATION ACCOMPLISHED. ALL SURFACES CLEAR.  
CHART: DEPARTURE ROUTE DESCRIPTION FOR 12L/R AND 30 L/R TOGETHER USING THE ROUNDED VALUES. UNROUNDED VALUES USED FOR DOCUMENTATION PURPOSES ONLY.  
DP RESTRICTIONS FOR ATC FACILITIES INFORMATION:  
ATC IS NOT ALLOWED TO LET AN AIRCRAFT CLIMBING TO THE LOWEST ALTITUDES ASSIGNED ENTER A HIGHER MVA UNLESS ATC HAS ASSIGNED AND THE PILOT REACHED THE ALTITUDE EQUAL TO OR HIGHER THAN THE MVA SECTOR THEY ARE ENTERING OR FAA ORDER 7110.65, PARAGRAPH 5-6-3.A.(1) OR (2) IS BEING APPLIED (ATC IS RESPONSIBLE FOR OBSTACLE SEPARATION UNTIL THE AIRCRAFT REACHES THE MVA ALTITUDE OR HIGHER).  
MSP:  
FOR THE ROUTED RUNWAY TRANSITIONS: IF ATC CLEARS THE PILOT FOR VECTORS TO THE IDF FOR A RUNWAY THAT HAS A ROUTED RUNWAY TRANSITION THE AIRCRAFT IS OFF THE DP AND

ATC IS RESPONSIBLE FOR OBSTACLE PROTECTION.  
RUNWAYS 12R, 35 USE A 500 FT/NM CLIMB GRADIENT FOR PROCEDURE DESIGN TO PROTECT THE OBSTACLE EVALUATION AREAS. IF THE PILOT CANNOT ACCEPT THE CROSSING RESTRICTIONS OR CLIMB GRADIENTS THEY MUST BE ASSIGNED A DIFFERENT RUNWAY OR DEPARTURE PROCEDURE.  
RUNWAYS 12L, 30L/R USE ATC CLIMB GRADIENTS FOR PROCEDURE DESIGN CROSSING RESTRICTIONS. IF PILOT CANNOT ACCEPT THE CROSSING RESTRICTION OR CLIMB GRADIENT THEY CAN STILL USE THE DEPARTURE PROCEDURE WITHOUT THEM. THEY WILL DEFAULT BACK TO THE TAKEOFF MINIMUMS. AN EVALUATION WAS CONDUCTED AT THE LAST FIX ON THE ROUTE TO VERIFY THAT ALL OBSTACLES WERE LOWER THAN THE OBSTACLE CLEARANCE SLOPE ELEVATION AT THE FIX BASED ON CLIMB GRADIENTS ALLOWED IN TAKEOFF MINIMUMS.  
ANE:  
TURN RESTRICTIONS FOR LOWEST ATC ASSIGNED ALTITUDE RWY 9, 27, 36: 190 CW 090 CLIMB TO 3000. REFERENCE ANE LETTER OF AGREEMENT (LOA).  
TURN RESTRICTIONS FOR LOWEST ATC ASSIGNED ALTITUDE RWY 18: RIGHT TURN 190 CW 090 CLIMB TO 3000. LEFT TURN 190 CW 060 CLIMB TO 3500. REFERENCE ANE LETTER OF AGREEMENT (LOA).

<u>FLIGHT INSPECTED BY</u>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	
<u>DEVELOPED BY</u>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	
RAKE MCGRAW (DEXTER SWEETING)		AJV-A431	08/26/2025	
<u>APPROVED BY</u>	<u>SIGNATURE</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
RAKE MCGRAW		AJV-A422		MANAGER

REQUIRED EFFECTIVE DATE  
ROUTINE

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER:ZMP, MSP ATCT, MSP DEP CON, AMGR

CHANGES - REASONS:  
ORIGINAL PROCEDURE.

10/20/2025: THIS IS A UPDATED COPY OF THE FORM DEVELOPED ON 08/26/2025.  
1. DP ROUTE DESCRIPTION: UPDATED ALL THENCE STATEMENT FROM "...CROSS HHOBA AT 4500..." TO "CROSS HHOBA AT OR ABOVE 4500...".

10/24/2025: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/26/2025.  
1. REMARKS: DP RESTRICTIONS FOR ATC FACILITIES INFORMATION: ANE: UPDATED NOTE FROM " ...RWY 9, 27, 36: 190 CW 060 CLIMB TO 3000..." TO "...RWY 9, 27, 36: 190 CW 090 CLIMB TO 3000...".  
2. REMARKS: DP RESTRICTIONS FOR ATC FACILITIES INFORMATION: ANE: UPDATED NOTE FROM " ...RWY 18: RIGHT TURN 190 CW TO 060 CLIMB TO 3000. LEFT TURN CW 060 TO CW 190 CLIMB TO 3500..." TO "...RWY 18: RIGHT TURN 190 CW 090 CLIMB TO 3000. LEFT TURN 190 CW 060 CLIMB TO 3500...".



**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
DEPARTURE (DATA RECORD)**

DP NAME						NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
BITEZ						ONE	BITEZ1.BITEZ	NONE		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS
RWY12L (AER)	445334.63N/0931315.57W	N	-	-	-	-				
1342 MSL	-	-	-	VA	121.33	-	AT/ABOVE 1342			
FSHAY	445055.82N/0930303.14W	Y	FB	DF	-	-	AT/ABOVE 3500			LEFT TURN
FHSAY	445055.82N/0930303.14W	-	-	FM	105.00	-				
RWY 12R (AER)	445316.04N/0931402.87W	N	-	-	-	-				CG 500 FT/NM TO 1324
1342 MSL	-	-	-	VA	121.34	-	AT/ABOVE 1342			
FSHAY	445055.82N/0930303.14W	Y	FB	DF	-	-	AT/ABOVE 3500			LEFT TURN
FSHAY	445055.82N/0930303.14W	-	-	FM	105.00					
RWY30L (AER)	445224.68N/0931204.27W	N	-	-	-	-				
1342 MSL	-	-	-	VA	301.36	-	AT/ABOVE 1342			
ITCHZ	445725.88N/0932236.37W	Y	FB	DF	-	-	AT/ABOVE 4000			
ITCHZ	445725.88N/0932236.37W	-	-	FM	300.00	-				
RWY30R (AER)*	445253.54N/0931140.67W*	N	-	-	-	-				*DSPL THLD (200 FT)
1342 MSL	-	-	-	VA	301.35	-	AT/ABOVE 1342			
ITZHZ	445725.88N/0932236.37W	Y	FB	DF	-	-	AT/ABOVE 4000			
ITCHZ	445725.88N/0932236.37W	-	-	FM	300.00	-				
RWY35 (AER)	445158.24N/0931411.92W	N	-	-	-	-				500 FT/NM TO 1342
1342 MSL	-	-	-	VA	349.53	-	AT/ABOVE 1342			

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DP NAME		NUMBER					DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	ACTUAL EFFECTIVE DATE
BITEZ		ONE					BITEZ1.BITEZ	NONE		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED		REMARKS
ITCHZ	445725.88N/0932236.37W	Y	FB	DF	-	-	AT/ABOVE 4000			LEFT TURN
ITCHZ	445725.88N/0932236.37W	-	-	FM	300.00	-				
HHOBA	445627.02N/0933155.67W	Y	-	IF	-	-	AT/ABOVE 4500			
BITEZ	445855.24N/0934534.49W	Y	FB	TF	284.38	10.00				
BITEZ	445855.24N/0934534.49W	Y	-	IF	-	-				BITEZ1.DKOTA
SKITO	445953.49N/0940012.46W	Y	FB	TF	275.43	10.43				
TICKK	450026.15N/0940837.74W	Y	FB	TF	275.26	6.00				
HHCEE	450135.16N/0942659.26W	Y	FB	TF	275.16	13.07				
DKOTA	452217.00N/0973727.00W	Y	FB	TF	279.86	136.25				
BITEZ	445855.24N/0934534.49W	Y	-	IF						BITEZ1.LEINY
SKITO	445953.49N/0940012.46W	Y	FB	TF	275.43	10.43				
TICKK	450026.15N/0940837.74W	Y	FB	TF	275.26	6.00				
HHCEE	450135.16N/0942659.26W	Y	FB	TF	275.16	13.07				
LEINY	450216.00N/0973640.00W	Y	FB	TF	271.41	134.51				
BITEZ	445855.24N/0934534.49W	Y	-	IF	-	-				BITEZ1.SMERF
ZOGAP	450641.59N/0935819.67W	Y	FB	TF	310.76	11.92				
PAGOZ	450913.88N/0940844.68W	Y	FB	TF	289.06	7.80				
SMERF	455515.82N/0973408.26W	Y	FB	TF	288.90	151.52				

